

## TRITON XLX 125HP

POWER	125 shaft horsepower	
DEPTH RATING	3000 msw (9842 fsw)	
DIMENSIONS		
Length	2.6m	
Width	1.68 m	
Height	2 m	
WEIGHT		
In-Air	3736 kg	
Payload in Seawater	150 kg	
SPEED (CALCULATED)		
Forward	3.9 knots	
Lateral	3.4 knots	
Vertical	3.7 knot	
Turning Rate	40° per second	
BOLLARD PULL (CALCUL	ATED)	
Forward	975 kgf	
Lateral	975 kgf	
Vertical	975 kgf	
THRUSTERS		
Туре	Hydraulic, fixed pitch, screens optional	
RPM	2,000 (maximum)	
Axial	4 x 380 mm (canted @ 45°)	
Vertical	3 x 380 mm (canted @ 15°)	
LIFT POINT	Location adjustable;	
Safe Working Load (SWF)	7,000 kg 15,430 lb	

FRAME	
Material	Aluminum 6082T6 with SST Hardware
Thru-Frame Lift	3000 kg 6614 lb
Auxiliary Lift	4 x padeyes provided with lift sling assembly
Work Package Mountings	<ul> <li>4 x 35 mm Ø horizontal pin and socket</li> <li>Aft mounts also available</li> </ul>
BUOYANCY	
Туре	Syntactic Foam
Arrangement	3 main blocks, secured with spring washers
SUBSEA HPU MOTOR	
Туре	4-Pole Induction
RPM	1800
Voltage	3-phase, 3000 VAC, 60 Hz
Configuration	Dual ended
Instrumentation	Ground fault, temperature, leak detect
HYDRAULICS	
Main Pump	Variable displacement, open circuit, load sensed 147 cc
Factory Set System Pressure	240 bar 3,500 psi
Maximum System Flow (open loop)	207 lpm

Auxiliary Pump (if fitted)	Variable displacement, open circuit, load sensed 45 cc	
Factory Set System Pressure	210 bar 3,060 psi	
Flow	70 lpm 19 gpm	
Manifolds	External metering, cross- port relief, on all valve stations	
Main	12 x NG3	
Thruster (total housed in 2 mainfolds)	<ul> <li>16 x M33 cartridge</li> <li>2 x NG3</li> </ul>	
Auxiliary (if fitted)	12 x NG3 (user con- figurable)	
NG6 Auxiliary (if fitted)	2 x NG6 Pressure and Bidirectional Flow (user configurable)	
Hi Flow Auxiliary (if fitted)	2 x High Flow P/O Car- tridge Check Valve	
Instrumentation	<ul> <li>Main and auxiliary pressure (mechanical and electrical gauges)</li> <li>Filter pressure differential (Thruster Case Drain)</li> <li>Reservoir levels (analogue)</li> <li>Water detectors in all manifolds</li> <li>Valve position and power indicators (visual onboard and on GUI)</li> </ul>	

Reservoirs		ELECTRICAL & TELEMETRY	Leak sensors in all boxes and vessels	Manifolds	<ul><li>Thruster x 2</li><li>Main</li></ul>
Main System	20 L (5.2 US gal/1,200 in3) including 6.6 L(1.7 US	Junction Boxes	Core Termination		<ul><li>Auxiliary</li><li>NG 6</li></ul>
Auxiliary System (if	gal/400 in3) compensation 7L (1.8 US gal/427 in3)	Pressure Vessel	1 x Control Can (Anodized Aluminum)	Instrumentation	<ul> <li>Analog level sensors,</li> </ul>
fitted)	including 3.3 L(0.85 US gal/200 in3) compensation	Protocol	ICEnet <sup>™</sup> Distributed Net- work Control		<ul><li>4 – 20 mA</li><li>Water Detect</li></ul>
Fill Volumes		Communications CWDM Multiplexers or		PERIPHERAL EQUIPMENT	User Configurable
Main System	50 L (13 US gal), 15 psi compensation		Single Mode Fiber – 6 Spare CWDM Channels	Lights	• 6 x 250 W (+2 op- tional) or 9 x LED (+3 optional)
Auxiliary System	25 L (7 US gal), 5 psi compensation	Core Junction Box	Core JB to include 4 SD video and 2 HD video Channels		<ul><li>120 VAC, dimmable</li><li>Controlled in pairs, 3</li></ul>
Filtering		Survey Junction Box	PSS Standard		x breakers protect 3 lights each
Pressure	3 Micron Absolute, No Bypass	DC Power	Inside dry housing	Cameras	• 4 x NTSC or PAL,
Return	5 Micron Absolute, 50 psi bypass		<ul> <li>(Control Can)</li> <li>5V, ±15V @ 85W for Can Equipment, 24V @</li> </ul>	Pan & Tilts	<ul> <li>(+4 optional)</li> <li>1 (+1 optional) Hy- draulic</li> </ul>
Case Drain	10 Micron Absolute, 15 psi bypass		<ul><li>100W for ICE Boards</li><li>24V @ 300W Cameras,</li></ul>		<ul> <li>Proportional speed control</li> </ul>
Water Separation	CARDEV specifications		24 V @ 300 W, 24 V @ 300 W (optional)		<ul> <li>Max Torque: 100 Nm75 ft-lbs</li> </ul>
Oil	ISO rated, Shell Tellus (vis- cosity specified based on area of operation)	AC Power	<ul> <li>48 V @ 300 W</li> <li>120 V @ 3.5 kW for</li> </ul>	Depth	• ± 0.1% FS Quartz Resonator
Tubing	Stainless steel seamless		DC supplies above, AC Instruments and lights	Imaging Sonar	330/675 kHz, 100 m range or optional custom
<b>-</b> ''''	tubing	C Power (Manifolds)			er specified sonar
Fittings	Stainless steel Parker Seal- Lok & SAE Ports	COMPENSATION – ELECT	750W	Optional Emergency RDF Beacon	Channel C 160.275 kHz pressure deactivated
POWER REQUIREMENTS		Relief Pressure	10 psi – 15 psi	Optional Emergency	Pressure de-activated
Power Input	250kVA Nominal – (Refer to	Oil	Shell Tellus (same viscosity	Flasher	strobe
	the Surface Power Section for generator sizing details)		as hydraulic fluid)	Optional DVL	As specified by customer
Voltage	440/690 V, 3-Phase, 60Hz	Capacity	90 L (23 gallons)		
		Junction Boxes	<ul><li>Core termination</li><li>Auxiliary</li></ul>		

## AUTO CONTROLS

Heading	± 2°
Depth	± 0.1 m
Altitude	± 0.1 m
Pitch and Roll	± 5°
Heading Park	Maintains heading relative to manipulator
Failsafe	Maintains depth during emergency loss of telemetry
ENVIRONMENTAL CON	DITIONS
Air Temperature	-20 to 45°C

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Water Temperature	4 to 32°C
Storage Temperature	-20 to 60°C
Humidity	Up to 100%
Saltwater	Designed for intermittent submersion
Vibration	0.5g Peak, sine-sweep 5 Hz to 55 Hz
LOAD FRAME DESIGN SPECIFICATIONS	Load Frame: TMS frame, vehicle frame, work package mount
	vehicle frame, work package
SPECIFICATIONS	vehicle frame, work package mount Rules for Certification of
SPECIFICATIONS Det Norske Veritas Lloyds Register of	vehicle frame, work package mount Rules for Certification of Lifting Appliances Lifting Appliances in a